

# Technical Data Sheet

## All-In-One Double Wall Exhaust

### DWKL

#### Product Line

DWKL – Double Wall Conical Joining Pipe & Fittings



#### Applications

Stainless steel all-in-one chimney, vent, or exhaust system for condensing boilers or those that use high temperatures not exceeding 1400°F continuous.

For connecting heating appliances and engines to the outdoors under negative or positive pressure.

Applicable for all fuels: gas, oil, wood, and any other solid fuels.



#### Purpose

Factory built eliminates welding in the field.

Assurance of finest quality and reliability.

Factory insulated, so single trade installations.

#### UL Listings (and ULC)

- UL-103 Standard, Building Heating Appliance Chimney (Industrial Type 540°C Chimney)
- UL-103 Standard, Additional Type HT Listing
- UL-2561 Standard, 1400°F Chimney Listing (Industrial Type 760°C Chimney)
- UL-103 & UL-2561 Standards, Additional Positive Pressure Listing to 90" WC after 1400°F
- UL-1978 Standard, Grease Duct (ULC-S662 Standard for Factory-Built Grease Ducts)
- UL-1738 Standard, Venting Systems for Gas-Burning Appliances, Categories II, III & IV (ULC-S636 Standard for Type BH Gas Venting Systems)
- UL-441 Standard, Gas Vents (ULC-S605 Standard for Gas Vents)
- UL-641 Standard, Type L Low-Temperature Vent (ULC-S609 Standard for Low-Temperature Vents Type L)

#### Materials

- Inner liner made of special ferritic high-grade ASTM 444 stainless steel.
  - 3" through 5" = 0.020" thick (DWKL-Lt variation)
  - 6" through 36" = 0.035" thick
- Ceramic fiber insulation, 1.5" thick compressed into 1.25" space.
- Outer jacket made of ASTM 304 stainless steel.
  - 3" through 24" = 0.025" thick
  - 26" through 36" = 0.035" thick
- All supports and accessories are ASTM 304 stainless steel.



#### Connection / Installation Details

Conical 2.2" overlapping joint.

Requires tapping to fully engage.

Use KL-Paste, a ceramic and mineral oil based manufacturing paste, to help facilitate an easy engagement.

Does not use silicone or sealant to make the high pressure seal.

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### Product Specifications

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<b>Diameters</b>	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, & 36
<b>Available Lengths</b>	9", 12", 18", 24", 30", 36", 42", & 48" (or any fixed length between)
<b>Available Fittings</b>	Any elbow or tee, over 80 catalog fittings per each diameter
<b>Available Accessories</b>	All-stainless supports, guides, hangers, and adapters - over 25 accessories per each diameter

### Features

- All-stainless with 25-year warranty.
- Leak proof conical high pressure joints.
- Cut length available for maximum field flexibility.
- Smooth flow and known resistance for perfected factory pressure calculations.
- Low and man-safe skin temperatures.
- Dramatically reduces clearance to combustibles.

### Controlling Dimensions

Shows the minimum (and standard) inside gore dimensions for fittings. Use these dimensions when ordering any special or custom part. Jeremias encourages custom built items to provide the best solutions to our customers.

